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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,652	06/24/2003	Masatoshi Yokota	0754-0192P	1286
	7590 12/16/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747	OH MA 22040 0747	HUNTER, ALVIN A		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			3711	
			NOTIFICATION DATE	DELIVERY MODE
			12/16/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

	Application No.	Applicant(s)				
	10/601,652	YOKOTA, MASATOSHI				
Office Action Summary	Examiner	Art Unit				
	ALVIN A. HUNTER	3711				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>25 N</u>	<u>ovember 2008</u> .					
2a) This action is FINAL . 2b) ☐ This	This action is FINAL . 2b)⊠ This action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1,2,4,6,7,9 and 11-13</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	wn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1,2,4,6,7,9 and 11-13</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) \square objected to by the \square	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority document	s have been received in Applicati	on No				
3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachmant(s)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5)	atent Application				

Art Unit: 3711

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4, 6, 7, 9, and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu (USPN 5908358) in view of Iwami (JP 2002-078824).

Regarding claim 1, 2, 4, 6, 7, 9, and 11-13, Wu discloses a thermosetting urethane golf ball cover wherein the thermosetting urethane resin composition comprises an isocyanate group- terminated urethane prepolymer and a polyamine compound covering a core having a Young's modulus, also known as modulus of elasticity or stiffness modulus, from about 5000 to 100000 psi, or 34.5 to 689.5 MP, a (See claim 1 of Wu). In table 1, Wu shows examples of golf balls in which bear the cover of the present invention wherein it is shown that the covers have a hardness of 51 to 58 Shore D. Wu, through the examples, show the cover having a thickness of about 1.3mm (See Table 1) because the diameter of the golf ball is 1.68 inches and the center is 1.50 inches resulting in the cover thickness being ((1.68-1.58)/2)*25.4mm. From the above, a modulus of at least 102 to 116 MPa would satisfy the applicant's criteria, and therefore, would anticipate the above claims. Wu discloses that the types of polyurethane that may be used are of thermoplastic and thermoset type in which

examples of how those types are made. Wu does not limit the polyurethane to having the types of isocyanates disclosed. Wu also established that alicylic isocyanates, which inherently has color stabilizing characteristics, can also be used to produce thermoset polyurethane (See Column 5, lines 39 through 50). Wu discloses the use of 4'diaminodiphevnlmethane but does not disclose the polyamine being 3, 3'-deithyl-5, 5'dimethyl-4,4'-diaminodipheynlmethane. Iwami discloses a golf ball having a cover of a polyurethane composition made of a isocyanate group-terminated urethane prepolymer and a polyamine wherein the isocyanate are 4,4'-dicyclohexylmethane diisocyanate, isophorone diisocyanate, etc., and the polyamine desired is 4'-diaminodipheynlmethane and derivative thereof where 3, 3'-deithyl-5,5'-dimethyl-4,4'-diaminodipheynlmethane is noted as being a derivative thereof (See Paragraphs 0018 to 0026)). One having ordinary skill in the art would have found it obvious to use the above polyamine as taught by Iwami, within the composition of Wu in order to improve thermal resistance. Further, one having ordinary skill in the art would have found it obvious to use the above isocyanates, taught by Iwami, within the composition of Wu in order to improve weatherability, water resistance, and resilience.

Response to Arguments

Contrary to the finding of the Board of Appeals and Interferences (BPAI), the BPAI is in error on the finding of previously pending claims 14-16. Table I shows the golf ball having a diameter of 1.68 inches and the center having a diameter of 1.58 inches. Subtracting the two values would result in a value of 0.10 inch. The cover

thickness is half the value obtained from subtracting the ball diameter and the center diameter which is 0.05 inches. In order to convert the values to mm, 0.5 inch must be multiplied by 25.4 which would result in 1.27mm or 1.3mm. In view of the above explanation, it is believed by the examiner that the rejection is proper.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALVIN A. HUNTER whose telephone number is (571)272-4411. The examiner can normally be reached on Monday through Friday from 7:30AM to 4:00PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eugene Kim, can be reached on 571-272-4463. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Alvin A Hunter/

Examiner, Art Unit 3711

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/Gene Kim/

Supervisory Patent Examiner, Art Unit 3711

/Robert P Olszewski/

Director, Technology Center 3700